

IN THE CLAIMS:

1. (Currently Amended) A method of translating protocols at a translator connected to a first network for transferring data in a first protocol, to a second network for transferring data in a second protocol, and to a translation server, wherein ~~to which other an additional translators are~~ is ~~connected, at least one of the other translators being connected to the first network, second network, a third network and the translation server,~~ the method comprising the steps of:

detecting an address query for an address of a second terminal accommodated in said second network, from a first mobile terminal accommodated in said first network;

generating a first address in said first protocol corresponding to a second address in said second protocol which is provided to said second terminal in the second network;

retaining a correspondence between said first address and said second address as ~~said~~ translation information for a protocol translation between said first protocol and said second protocol; and

registering the correspondence between said first address and said second address at in said translation server;

wherein, upon receiving at said additional translator a packet having said first address as a destination address from said first mobile terminal after a movement of said first mobile terminal, further comprising the steps of:

inquiring, at said additional translator, of said translation server about address information of said second terminal;

receiving, at said additional translator, the correspondence between said first address and said second address registered by said translator from said translation server;

rewriting, at said additional translator, said destination address to said second address according to the correspondence; and

transmitting, at said additional translator, said rewritten packet to said second terminal.

2. (Cancelled).

3. (Currently Amended) The method of translating protocols according to claim 21,
wherein a source IP address of the packet is rewritten to the address of said additional translator in said second protocol.

4-5. (Cancelled).

6. (Currently Amended) An address translation server connected to a first ~~network~~ and a second network for transferring data in a first protocol, ~~and to~~ a third network for transferring data in a second protocol, and to a first mobile terminal which has moved from the first network to the second network, comprising:

a memory device for storing a correspondence information among a name of ~~the~~ a second terminal, ~~and~~ an address of the second terminal in the first protocol, ~~and~~ an address of the second terminal in the said second protocol; and

an interface for receiving the correspondence information from the first network and sending the correspondence information to the second network,

wherein the correspondence information is generated in the first network when the first mobile terminal sends an address query for the address of the second terminal, and

the interface sends the correspondence information to a translator connected to the second network and the third network upon receiving a query from the translator.

7. (Cancelled).

8. (Cancelled).

9. (New) A method of translating protocols at a translator connected to a first network for transferring data in a first protocol, a second network for transferring data in a second protocol, and a translation server, wherein an additional translator is connected to the first network, second network, and the translation server, the method comprising the steps of:

detecting an address query for an address of a second terminal accommodated in said second network from a first terminal accommodated in said first network;

generating a first address in said first protocol corresponding to a second address in said second protocol which is provided to said second terminal in the second network;

retaining a correspondence between said first address and said second address as translation information for a protocol translation between said first protocol and said second protocol;

registering the correspondence between said first address and said second address in said translation server; and

receiving, at said additional translator, the correspondence between said first address and said second address registered by said translator from said translation server;

wherein upon receiving, at said additional translator, a packet having said first address as a destination address from said first mobile terminal after a movement of said first mobile terminal, further comprising the steps of:

rewriting, at said additional translator, said destination address to said second address according to the correspondence; and

transmitting, at said additional translator, said rewritten packet to said second address.

10. (New) An address translation server connected to a first and a second network for transferring data in a first protocol, a third network for transferring data in a second protocol, and a first mobile terminal which has moved from the first network to the second network, comprising:

a memory device for storing a correspondence information among a name of a second terminal, an address of the second terminal in the first protocol, and an address of the second terminal in the second protocol; and

an interface for receiving the correspondence information from the first network and sending the correspondence information to the second network,

wherein the correspondence information is generated in the first network when the first mobile terminal sends an address query for the address of the second terminal and

the interface sends the correspondence information to a translator connected to the second network and the third network.